

TABLE OF CONTENTS

---

PART I : GENERAL HYPERGRAPHS

|   |     |  |
|---|-----|--|
| C. BERGE  |     |  |
| Isomorphism Problems for Hypergraphs . . . . .  | 1   |  |
| C. BERGE  |     |  |
| Nombres de coloration de l'hypergraphe h-parti complet . .  | 13  |  |
| C. BERGE and M. SIMONOVITS  |     |  |
| The Coloring Numbers of the Direct Product of Two<br>Hypergraphs . . . . .  | 21  |  |
| J.C. BERMOND  |     |  |
| Graphe représentatif de l'hypergraphe h-parti complet . .   | 34  |  |
| R. BONNET and P. ERDŐS  |     |  |
| The Chromatic Index of an Infinite Complete Hypergraph :<br>a Partition Theorem . . . . .                                 | 54  |  |
| V. CHVÁTAL  |     |  |
| Intersecting Families of Edges in Hypergraphs Having<br>the Hereditary Property . . . . .                                 | 61  |  |
| W.H. CUNNINGHAM   |     |  |
| On theorems of Berge and Fournier . . . . .   | 67  |  |
| P. ERDŐS  |     |  |
| Extremal Problems on Graphs and Hypergraphs . . . . .   | 75  |  |
| V. FABER  |     |  |
| Hypergraph Reconstruction . . . . .   | 85  |  |
| J.C. FOURNIER   |     |  |
| Une condition pour qu'un hypergraphe, ou son complémentaire,<br>soit fortement isomorphe à un hypergraphe complet . . . . | 95  |  |
| P. HANSEN and M. LAS VERGNAS  |     |  |
| On a Property of Hypergraphs with no cycles of Length<br>Greater than 2 . . . . .   | 99  |  |
| M. LAS VERGNAS  |     |  |
| Sur les hypergraphes bichromatiques . . . . .   | 102 |  |

|               |  |     |
|---------------|--|-----|
| L. LOVÁSZ     |  |     |
|               | Minimax Theorems for Hypergraphs . . . . .   | 111 |
| J.C. MEYER    |  |     |
|               | Quelques problèmes concernant les cliques des hypergraphes<br>h-complets et q-parti h-complets . . . . . | 127 |
| R. RADO       |  |     |
|               | Reconstruction Theorems for Infinite Hypergraphs . . . . .   | 140 |
| M. SIMONOVITS |  |     |
|               | Note on a Hypergraph Extremal Problem . . . . .  | 147 |
| F. STERBOUL   |  |     |
|               | Sur une conjecture de V. Chvátal . . . . .   | 152 |
| F. STERBOUL   |  |     |
|               | On the Chromatic Number of the Direct Product of<br>Hypergraphs . . . . .                                | 165 |

PART II : GRAPHS, MATROIDS, DESIGNS

|                                 |  |     |
|---------------------------------|--|-----|
| V. CHVÁTAL and L. LOVÁSZ        |  |     |
|                                 | Every Directed Graph Has a Semi-kernel . . . . .                     | 175 |
| T.A. DOWLING and D.G. KELLY     |  |     |
|                                 | Elementary Strong Maps and Transversal Geometries . . . . .          | 176 |
| P. ERDŐS                        |  |     |
|                                 | Some Problems in Graph Theory . . . . .                              | 187 |
| T. HELGASON                     |  |     |
|                                 | Aspects of the Theory of Hypermatroids . . . . .                     | 191 |
| W. PULLEYBLANK and Jack EDMONDS |  |     |
|                                 | Facets of 1-Matching Polyhedra . . . . .                             | 214 |
| W.T. TUTTE                      |  |     |
|                                 | Chromials . . . . .  | 243 |
| R.M. WILSON                     |  |     |
|                                 | Some Partitions of All Triples into Steiner Triple Systems . . . . . | 267 |

PART III

|                             |     |
|-----------------------------|-----|
| UNSOLVED PROBLEMS . . . . . | 278 |
|-----------------------------|-----|